

Amendments to the Claims: This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1.-12. (Canceled)

13. (Currently Amended) A method of purifying sucralose from a crude sucralose solution consisting of sucralose and related chlorinated carbohydrates, the method comprising the steps of:

(a) subjecting a feedstock comprising said crude sucralose solution to a non-crystallization purification step to yield an increased purity sucralose solution containing a lower amount of said related chlorinated carbohydrates relative to said sucralose than an amount of the related chlorinated carbohydrates relative to an amount of the sucralose in the crude sucralose solution;

(b) performing a crystallization procedure on said increased purity sucralose solution to obtain crystalline sucralose and a first mother liquor;

(c) dissolving said crystalline sucralose to obtain a sucralose solution and performing a crystallization procedure on the sucralose solution to obtain a more pure crystalline sucralose and a second mother liquor; and

(d) repeating step (c) at least two additional times to obtain a further purified sucralose and at least one additional mother liquor,

wherein one or more of steps (a)-(d) are performed as continuous operations and wherein one or more of said mother liquors from steps (b)-(d) are added to a feedstock of at least one of the steps preceding it.

14. (Previously Presented) The method of claim 13, wherein said step (c) is repeated three times to obtain a further purified sucralose and at least one additional mother liquor.

15. (Previously Presented) The method of claim 13, wherein said step (c) is repeated four times to obtain a further purified sucralose and at least one additional mother liquor.

16. (Previously Presented) The method of claim 13, wherein said step (c) is repeated five times to obtain a further purified sucralose and at least one additional mother liquor.

17. (Previously Presented) The method of claim 13, wherein said step (c) is repeated more than five times to obtain a further purified sucralose and at least one additional mother liquor.

18. (Canceled)

19. (Original) The method of claim 13, wherein said mother liquor from any of said crystallization procedures is recycled to one or more earlier stage crystallization procedures.

20. (Original) The method of claim 13, wherein one or more steps are performed as batch operations.

21. (Canceled)

22. (Previously Presented) A method of obtaining sucralose from a feed mixture comprising 6-O-acyl-4,1',6'-trichloro-4,1',6'-trideoxygalactosucrose, other chlorinated sucrose byproducts, and optionally blocked or partially blocked chlorinated sucrose byproducts comprising the steps of:

(a) performing a non-crystallization extraction step on said feed mixture to obtain an increased purity 6-O-acyl-4,1',6'-trichloro-4,1',6'-trideoxygalactosucrose composition;

(b) performing a crystallization procedure on said increased purity 6-O-acyl-4,1',6'-trichloro-4,1',6'-trideoxygalactosucrose composition to obtain 6-O-acyl-4,1',6'-trichloro-4,1',6'-trideoxygalactosucrose and a mother liquor;

(c) performing at least three additional sequential crystallizations of the 6-O-acyl-4,1',6'-trichloro-4,1',6'-trideoxygalactosucrose to obtain a purified 6-O-acyl-4,1',6'-trichloro-4,1',6'-trideoxygalactosucrose and additional mother liquor; and

(d) converting said purified 6-O-acyl-4,1',6'-trichloro-4,1',6'-trideoxygalactosucrose to purified sucralose,

wherein one or more of said mother liquors of steps (b) or (c) are recycled into one or more of said performing non-crystallization extraction steps and said performing crystallization steps.

23. (Canceled)

24. (Previously Presented) The method of claim 22, wherein said performing a non-crystallization extraction step comprises a non-crystallization purification procedure selected from the group consisting of liquid-liquid-extraction, chromatography, and precipitation followed by solvent washing.

25. (Original) The method of claim 22, wherein said crystallization of the 6-O-acyl-4,1',6'-trichloro-4,1',6'-trideoxygalactosucrose is performed three times.

26. (Original) The method of claim 22, wherein said crystallization of the 6-O-acyl-4,1',6'-trichloro-4,1',6'-trideoxygalactosucrose is performed four times.

27. (Original) The method of claim 22, wherein said crystallization of the 6-O-acyl-4,1',6'-trichloro-4,1',6'-trideoxygalactosucrose is performed five times.

28. (Original) The method of claim 22, wherein said crystallization of the 6-O-acyl-4,1',6'-trichloro-4,1',6'-trideoxygalactosucrose is performed more than five times.

29. (Original) A method of obtaining sucralose from a feed mixture comprising 6-O-acyl-4,1',6'-trichloro-4,1',6'-trideoxygalactosucrose, other chlorinated sucrose byproducts, and optionally other blocked or partially blocked chlorinated sucrose byproducts comprising the steps of:

(a) performing a non-crystallization extraction step on said feed mixture to obtain an increased purity sucralose precursor stream;

(b) converting said 6-O-acyl-4,1',6'-trichloro-4,1',6'-trideoxygalactosucrose in said increased purity sucralose precursor stream to sucralose;

(c) crystallizing said sucralose to obtain a crystalline sucralose and a mother liquor; and

(d) performing at least three additional sequential crystallizations of said crystalline sucralose to obtain a substantially pure sucralose and additional mother liquor.

30. (Original) The method of claim 29, further comprising the step of crystallizing 6-O-acyl-4,1',6'-trichloro-4,1',6'-trideoxygalactosucrose from the increased purity sucralose precursor stream of step (a) prior to performing step (b).

31. (Original) The method of claim 29, wherein said crystallizing step is performed three times.

32. (Original) The method of claim 29, wherein said crystallizing step is performed four times.

33. (Original) The method of claim 29, wherein said crystallizing step is performed five times.

34. (Original) The method of claim 29, wherein said crystallizing step is performed more than five times.

35.-45. (Canceled)

46. (Original) A sweetener composition comprising purified sucralose, wherein the ratio of said purified sucralose to impurities is greater than about 500:1.

47. (Original) The composition of claim 46, wherein the ratio of said purified sucralose to impurities is greater than about 750:1.

48. (Original) The composition of claim 47, wherein the ratio of said purified sucralose to impurities is greater than about 1000:1.

49. (Original) The composition of claim 46, wherein said impurities comprises one or more impurities selected from the group consisting of water, 4,6'-dichlorogalactosucrose, 4,1'-dichlorogalactosucrose, 1',6'-dichlorosucrose, 3',6'-anhydro-4,1-dichlorogalactosucrose, 4,1',6'-trichlorogalactosucrose-6-acetate, 6,1',6'-trichlorosucrose, and other chlorinated carbohydrates.

50.-59. (Canceled)

60. (Previously Presented) A purified sucralose composition comprising less than 0.01 percent impurities, wherein one or more of said impurities is selected from a group consisting of halogenated sugar derivatives, any acylated sucralose, salt, or carbohydrate.

61. (Original) The composition of claim 60, wherein said halogenated sugar derivatives comprise dichlorosucrose acetate, 6,1',6'-trichlorosucrose, 4,6,6'-trichlorosucrose, 4,1',4',6'-tetrachlorogalactosucrose, 4,1',6'-trichlorogalactosucrose-6-acetate, and 4,6,1',6'-tetrachlorogalactosucrose, 4,1'-dichlorogalactosucrose, 3',6'-dichloroanhydrosucrose, 4,6'-dichlorogalactosucrose, 1',6'-dichlorosucrose, 6,6'-dichlorosucrose, and 4,1',6'-trichlorosucrose.

62. (Currently Amended) ~~A method for purifying sucralose from a crude sucralose solution comprising the steps of:~~

~~(a) — subjecting a feedstock comprising said crude sucralose solution to a non-crystallization chromatographic purification step to yield an increased purity sucralose solution; and~~

~~(b) — performing at least three crystallization procedures on said increased purity sucralose solution to obtain crystalline sucralose and a mother liquor.~~
The method of claim 13, in which said step of subjecting a feedstock comprises subjecting the feedstock to chromatographic purification.

63.-66. (Canceled)

67. (Original) The method of claim 62, wherein said crystallization procedure is performed three times.

68. (Original) The method of claim 62, wherein said crystallization procedure is performed four times.

69. (Original) The method of claim 62, wherein said crystallization procedure is performed five times.

70. (Original) The method of claim 62, wherein said crystallization procedure is performed more than five times.

71. (Original) A sweetener composition comprising purified sucralose, wherein the ratio of said purified sucralose to chlorinated impurities is greater than about 500:1.

72. (Original) The composition of claim 71, wherein the ratio of said purified sucralose to chlorinated impurities is greater than about 750:1.

73. (Original) The composition of claim 72, wherein the ratio of said purified sucralose to chlorinated impurities is greater than about 1000:1.

74. (Original) The composition of claim 71, wherein said chlorinated impurities comprises one or more impurities selected from the group consisting of 4,6'-

dichlorogalactosucrose, 4,1'-dichlorogalactosucrose, 1',6'- dichlorosucrose, 3',6'-anhydro-4,1-dichlorogalactosucrose, 4,1',6'-trichlorogalactosucrose-6-acetate, and 6,1',6'-trichlorosucrose.

75.-86. (Canceled)